

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, DC 20460

TE 1 4 1989

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Review of all Available Toxicology Data for the

Herbicide Pyridate

Tox. Chem. No.: 716A

FROM:

Yiannakis M. Ioannou, Ph.D., Section Head

Review Section I, Toxicology Branch II (HFAS

Health Effects Division (H7509C)

TO:

Robert J. Taylor, PM 25 Herbicide-Fungicide Branch Registration Division (H7505C)

THRU:

Marcia van Gemert, Ph.D., Branch Chief Muau gement, 2/18/89

Toxicology Branch II (HFAS)

Health Effects Division (H7509C)

Registrant: Agrolinz, Inc., Memphis, Tennesse

Toxicology Branch II (HFAS) has recently completed the review of all toxicology studies submitted to the Agency by the registrant in support of registration of the herbicide Pyridate. Following, is the list of studies reviewed and their core-classification (for details see attached DERs):

Duridate Technical

	Core Classification
MATD#	Classification
073280	Guideline
073280	Guideline
073280	Minimum
072340	Minimum
072340	Minimum
a pig 072340	Minimum
401574-01	Guideline
401016-04	Guideline
409804-01	Guideline
	073280 073280 072340 072340 a pig 072340 401574-01 401016-04

Chronic Testing

7 83-1 3 83-2 3 83-3 3 83-3	Chronic/onc Feeding - Rat Chronic (1 Year) Toxicity - Dog Carcinogenicity - Mouse Teratology - Rat Teratology - Rabbit Reproduction - Rat	072343 410939-01 072346 262546 404632-01 072347	Supplementary Guideline
Muta	genicity Testing		
Gene	Mutations		2
	Ames Test Chinese Hamster Ovary	401016-02 401865-02	
Chro	mosomal Aberrations		· · ·
284-2 284-2	Cytogenetic Analysis Micronucleus/Mouse Bone Marrow	072348 401164-01	Acceptable Acceptable
<u>Othe</u>	r Genotoxic Tests		
<u> </u>	Unscheduled DNA Synthesis	408570-01	Acceptable
Spec	ial Testing		
3 85-1	General Metabolism - Rat	409862-01	Guideline
	<u>Formulations</u>		
	Acute Testing		
<i>₂</i> 81-1	Acute Oral LD50 - Rat (3.75EC) Acute Oral LD50 - Rat (45% WP) Acute Dermal	073307 073280	Guideline Guideline
2 81-2	LD50 - Rabbit (3.75 EC) Acute Dermal	073307	Guideline
	LD50 - Rabbits (45% WP) Acute Inhalation	073280	Guideline
	LC50 - Rat (3.75 EC) Eye irritation - Rabbit (3.75 EC)	073307	Guideline
₂ 81-5	Dermal Irritation - Rabbit (3.75 EC)	•	Minimum
81-6	Dermal Sensitization -	073307	Minimum
	G. Pig (3.75 EC)	072340	Minimum

All the above studies with a core classification of guideline or minimum satisfy data requirements. The only data gap that exists in the toxicology data base for Pyridate is the mouse carcinogenicity study. The submitted study has been found to be unacceptable and will not be upgraded to satisfy guideline requirements. The registrant has agreed to repeat this study and such study has been initiated in March, 1989, at Southern Research Institute. However, the earlier submitted mouse carcinogenicity study, provided the Agency with adequate information as to the carcinogenic potential of Pyridate in mice. Based on our evaluation of this study (see attached DER), Pyridate does not appear to be carcinogenic in male or female mice.

Thus, Toxicology Branch II (HFAS) considers the toxicology data base for Pyridate to be adequate to support a <u>Conditional</u> Registration of this chemical.

Attachments